

August 23, 2012
W-P Project No. 12423A

Michael Laberge, Local Projects Coordinator
Bureau of Project Development, Multimodal Program
Maine Department of Transportation
16 State House Station
Augusta, ME 04333-0016

RE: Preliminary Design Report (PDR) – Response to Comments
MaineDOT WIN 019394.00 – Whipple Road Sidewalk Project

Dear Mike:

Wright-Pierce has reviewed the comments provided by Memorandum on the Preliminary Design Report for the Kittery Whipple Road Sidewalk Project, WIN 019394.00 dated August 7, 2012. We have reviewed these comments and have updated the Preliminary Design Report accordingly (revised copy attached). As discussed with you, we feel that the comments on the plans can best be addressed by means of this letter and any necessary changes to the plans will occur during final design. Our responses to your comments are indicated in bold, italics.

General Comments on the PDR

- **Purpose & Need** (page 1): Kittery had requested a concrete sidewalk with granite curb. Since the current estimate exceeds the application amount by nearly \$400,000, Kittery should consider covering the difference between bituminous and concrete/granite. ***Kittery will contribute a match of \$265,000. This includes the full cost of sharrows and shared lane signage and also includes the difference in cost between concrete/granite and bituminous sidewalk and curb. The match will be approximately 33% of the anticipated total cost of the project.***
- **Exceptions to Controlling Standards** (page 2): Please note that the proposed shoulder will match existing conditions. Also, keep in mind that a narrow shoulder beside the curb could be dangerous for bicyclists. ***This has been noted in the PDR, and the shoulder remains at 2’.***
- **Environmental Review** (page 3): References to a shared-use path should be removed. ***This change has been made.***
- **Construction Schedule** (page 6): Plan on at least six weeks from project advertise to construction begin. Also, construction for a project with so many utility conflicts could take 10 weeks. ***Advertise will be 7-8-13, construction will begin 8-19-13 and construction will be complete 11-1-13.***



- **Budget** (page 6): The summary refers to a town share of \$36,600. The combined costs for right of way, construction and CE are \$720,200, so 20% would be \$144,040.
 - o Kittery should consider contributing additional local funds by covering the difference between bituminous sidewalk/curb and concrete/granite sidewalk and curb.
 - o Additionally, the Town should consider paying for the proposed “shared roadway” signs (645.271) and sharrows (item 627.75) on its own.

The total cost is now estimated at approximately \$793,500. Kittery will contribute a match of \$265,000. This includes the full cost of sharrows and shared lane signage and also includes the difference in cost between concrete/granite and bituminous sidewalk and curb. The match will be approximately 33% of the anticipated total cost of the project.

- **Proposed Design** (page 7): It is stated that drainage structures will be tied into three existing culverts to be replaced. Please conduct calculations at final design to determine if the sizes of these culverts will need to be increased. ***This will be done at final design.***
- **Shoulder Section** (page 8): There is no need for 19 mm HMA for the shoulders. ***12.5mm only will be used on shoulders and trench patching. This change will be made for final design. The existing depth of pavement on the shoulders generally ranges between 2” and 8”, based on the ledge probes that were conducted. We have carried a depth of 4 ½” in the estimate.***

Attachment 5 – Preliminary Construction Cost Estimate

- **Aggregate.** It is stated that the sub-base course under the sidewalk should be specified as Type B. Instead, use a special provision for Type D to make it 4” minus aggregate, but don’t change the rest of the gradation. Also, 0-5% on a 200 sieve is not necessary. ***This is what was intended and is how it will be handled in the spec. The change will be made at final design.***
- 403.207: No need for 19 mm HMA. Use all 12.5 mm for shoulders. ***See above.***
- 608.08, Concrete Sidewalk: MaineDOT’s average from recent bids is around \$90/SY, with some bids coming in between \$150 and \$200. ***We have bumped the cost up to \$90. Aggregate base and excavation are included under other item, and this will be stated in the specifications.***
- Some additional equipment rentals should be considered in case of unanticipated work: 631.175 – Truck-large (including operator) – HR; 631.22 – Front End Loader (including operator) – HR; 631.32 – Culvert Cleaner (including operators) – HR. ***We can add in one hour for each of these in case they are needed at final design.***
- Traffic Control, 652.390: MaineDOT is moving away from lump-sum traffic control. Instead, use the following pay items: o 652.31, Type I Barricade – EA; o 652.33, Drums – EA; o 652.34, Cones – EA. ***This will be addressed at final design.***

Attachment 6 – Pole List

- See attached comments. ***The attached pole list is from February, 2012, and the attached mark-up that follows reflects subsequent conversation and coordination with the utilities and was prepared in May, 2012. The mark-up supersedes the pole list. We will request an updated pole list from the utilities for final design.***



Drawing C-1 – General

- Drainage: Please show the direction of travel in the pipes using \longrightarrow or \longleftarrow *This will be addressed at final design.*
- **Drawings C-6 to C-10** Detectable Warning Fields: Actual locations of detectable warning fields need to be more clearly defined to ensure the edges follow the curblines at radii. *Jen Paul has agreed that the current treatment of detectable is acceptable in this case. No change will be made.*
- **Drawing C-16 – Details I** Flat Slab Top Catch Basin: MaineDOT's standard is a cone-top style, either an A or B-1 (center cone) or an A or B-5 (offset cone to avoid utilities.) Flat-slab top basins should be used only as a last resort, because of the risk of differential settlement. *The flat slab was used due to the shallow depth to ledge in many areas. For final design, a cone style basin will be added to the details with a note that it is preferred over the flat slab style and should be used where possible.*

Very truly yours,

WRIGHT-PIERCE

Jennifer Claster, R.L.A.
Project Manager

Enclosure

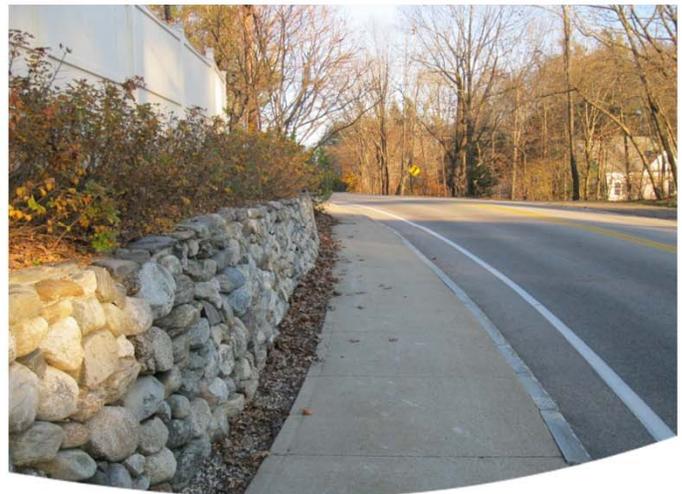
Cc: Mary Ann Conroy, Town of Kittery Public Works Commissioner

August 2012

Town of Kittery, Maine

MaineDOT PIN 0019394.00

Whipple Road Sidewalk Preliminary Design Report



TOWN OF KITTERY, MAINE

Whipple Road Sidewalk
MaineDOT WIN 0019394.00, W-P Project #12423A
Preliminary Design Report

TABLE OF CONTENTS

Preliminary Design Report

Attachment 1a - Preliminary Plans

Attachment 1b - Preliminary Right-of-Way Plans

Attachment 2 - Proposed Kittery Bicycle Routes Plan

Attachment 3 - Whipple Road Shared Lane Signage and Pavement
Marking Plan

Attachment 4 - Documentation of Public Process

Attachment 5 - Detailed Cost Estimate

Attachment 6 - Pole List (February, 2012) and Markup (May, 2012)

Whipple Road Sidewalk Preliminary Design Report

Kittery, ME
019394.00

Date: August 23, 2012

Municipality: Kittery

Federal Project Number: STP-1939 (400)X

General Information

- **Project Length:** 0.47 Mile
- **Town Contact:** Mary Ann Conroy, Commissioner of Public Works
- **Consultant Contacts:** Jonathan Edgerton - Wright-Pierce, Engineer of Record; Jennifer Claster - Wright-Pierce, Designer
- **Contract Administrator:** Michael Laberge, MaineDOT Local Projects Coordinator
- **Route** (See Attached Plans): The proposed sidewalk will follow the north side of Whipple Road/Route 103 from Wyman Avenue to Old Ferry Road, completing a gap in the existing Whipple Road sidewalk.
- **Beginning Point:** Wyman Avenue (RLM 9.26)
- **End Point:** Old Ferry Lane (RLM 9.73)



Planning

- **Purpose & Need:**

The Town of Kittery intends to construct a fiber reinforced concrete sidewalk with a granite curb along Whipple Road from Wyman Avenue to Old Ferry Road. The sidewalk will connect to the Mitchell School neighborhood and is in the immediate vicinity of the Traip High School Neighborhood. It will complete a missing link of 2,500 LF in the sidewalk along Whipple Road. The neighborhood has over 340 students surrounding the Mitchell Middle School and approximately 400 students surrounding the Traip High School.

The route is highly used by area bicyclists heading to Fort Foster, Seapoint Beach and the Town of York. The project will include signage and pavement markings to indicate to drivers that this is a "shared roadway". The use of shared lanes in this area is consistent with the Town's Bicycle Route Plan (attached), and is being undertaken as part of a comprehensive treatment of Whipple Road, as illustrated in the proposed signage and pavement marking plan prepared by Maine Traffic Resources (attached). The Town will assume the cost of installing the signage and pavement markings.



Traffic

- **Routes:** 103
- **Functional Class:** Major/Urban Collector
- **Section Description:** 11'-0" Travel Lane/2'-0" Shoulder
- **Posted Speed:** 30 mph
- **Design Speed:** N/A
- **Average Annual Daily Traffic (AADT):** Whipple Road, west of Philbrick Road – 5,320 (2010); Whipple Road, east of Bowen Road – 4,280 (2010)
- **High Crash Locations:** N/A



Design (See Attached Plans)

- **Brief Summary:** The overall guiding design principals for the sidewalk improvements consider the MaineDOT Highway Design Guide - Volume II. The following additional design considerations were incorporated into the project to date:
 - Minimize impacts to private property;
 - Minimum sidewalk width of 5'-0" feet, including the curbing, except for a portion between STA 15+00 and STA 16+00, where it will be 6'-0" wide, including the curbing; and
 - Shared lane markings and signage will be incorporated to accommodate bicyclists

Portions of the sidewalk will fall outside the existing right-of-way. After reviewing the plans with MaineDOT, it was determined that MaineDOT would assist with a right-of-way taking within the project area. The proposed right-of-way would generally follow a line described by a 22' offset to the north of the project baseline. This will provide space for utility poles displaced by the proposed sidewalk to be located to the back of the sidewalk within future right-of-way. The existing right-of-way line on the south side of Whipple Road would not be altered.

- **Exceptions to Controlling Standards:** The project applied for a Design Exception from MaineDOT for Criterion 3 - Shoulder Width, before it was determined that the 2' proposed curb offset would be acceptable under the Department's standards. The proposed shoulder will match existing conditions.



Environmental Review

- **NEPA Issues:** There was no substantial opposition to the project raised at the public meeting, and only one minor NRPA permit in addition to Town permits is anticipated. Because of the need for right-of-way acquisition and temporary rights to accommodate grading and drainage, the project may result in substantial abutter impacts. The project requests MaineDOT’s input on whether substantial abutter impacts will result from the proposed design. Draft right-of-way plans are included as Attachment 1b.
- **Historic properties (Section 106):** None
- **Public Lands (Section 4f):** None. There is public waterfront access adjacent to the project area on the south side of Whipple Road near Tilton Avenue.
- **Wetland Mitigation:** None
- **In-Stream Work-Window:** N/A
- **Hazardous Materials:** None
- **Avoidance & Minimization:** It is not anticipated that the proposed work will affect significant natural resources. The overall project construction will disturb less than one acre (approximately .95 Ac) during construction, and the significant portion of this disturbance will be located within the existing or proposed roadway right-of-way and on previously disturbed areas including existing shoulders. Overall, the work will create less than an acre of new impervious surfaces. The project, as designed, does not require a state stormwater permit as the disturbed area is less than one acre, and the overall impervious surfaces are less than one acre.



As noted above, the project will be located largely within the road right-of-way and generally in areas previously disturbed, such as gravel and paved shoulders. Based on this, a full wetland delineation was not completed as part of this project, however, the National Wetland Inventory was reviewed and the data incorporated into the overall design of the project. Based on our review of the project area, and the location of the sidewalk and drainage work, we do not expect to work within wetland areas, and therefore do not expect permitting under the Maine Department of Environmental Protection Natural Resources Protection Act and/or the Army Corps of Engineers (ACOE).



The project is adjacent to Tidal Waterfowl and Wading Bird Habitat. We are anticipating applying for a NRPA PBR for Category 2 (adjacency to significant wildlife habitat). The permit consists of a notification needed 14 days or sooner prior to the

Whipple Road Sidewalk Preliminary Design Report

Kittery, ME
019394.00

start of construction. Some culvert replacements will occur - these are expected to be exempt from NRPA. When the stormwater design has been finalized, necessary NRPA permits will be applied for and/or NRPA notifications will be sent.

We anticipate the project will fall under a Categorical Exclusion for NEPA requirements.



Right of Way Coordination (Estimated) (See Attached Plans and Cost Estimate)

- **Total Existing Width:** 33'
- **Total Proposed Width:** Generally 37', with an exception in the vicinity of STA 21+00 LT, where an existing house would fall within that area
- **# of Abutters:** North side of Whipple Road: 25; South side of Whipple Road: 23
- **# of Acquisitions:** 24 (Includes one on land owned by the Town of Kittery)
- **# of Slope Easements Needed:** 23 (Includes one on land owned by the Town of Kittery)
- **# of Drainage Easements Needed:** 9 (includes one on land owned by the Town of Kittery)
- **# of Temporary Rights Needed (Does not Include Drainage and Slope Easements):** 13
- **# of Relocations:** 0

Utility Impacts/Issues

- **Pole List:** A pole list from February, 2012 is included as Attachment 6. Subsequent conversation and coordination with the utilities to fine-tune pole locations is reflected in the markup from May, 2012 that follows the pole list in Attachment 6 and is also reflected in the pole and guy wire locations shown in the PDR plan set attached to this report.
- **ROW issues related to utilities:** Five poles are to be removed from the project area. Three of the poles to be removed are currently either outside the existing right-of-way or on the existing right-of-way line. Another pole will have just its anchor and guy removed. Two poles that are currently outside the existing right-of-way will be replaced with taller poles in their existing locations and will remain outside the proposed right-of-way. The utilities will need to verify that they have rights to replace the poles in these two locations, both of which are in the vicinity of STAs 19+00 and 20+00 RT. The project would like to request MaineDOT's assistance in verifying that the utilities have rights in areas where they will be working on existing poles, guy wires, or push poles outside the current and proposed right-of-way. Twelve poles are to be relocated from existing locations within the existing right-of-way



to new locations within the proposed right-of-way. The overhead utility companies may need to obtain easements for some guy wires. Temporary rights will be needed to allow for the removal of trees for overhead utility relocation near STA 19+00 R. A tree to be removed for utility relocation near STA 31+75 LT will fall within the proposed slope easement limits on the affected parcel. There are several locations where tree trimming for utility relocation will occur within the limits of the proposed right-of-way: near STA 25+50 LT, a tree will need to be trimmed to accommodate a guy wire, and near STA 27+00 LT, some shrubs may need to be pruned to accommodate utility pole relocation. In these two instances, the activity will occur within a temporary construction limit or a slope easement limit.



- **Utility Agreements:** No formal agreements have been reached at this time.
- **Underground Utilities:** An on-site utility coordination meeting was held on February 15, 2012, and utility coordination has been on-going. This project will require coordination of proposed drainage lines with existing water and sewer facilities. Several existing catch basins will need to be relocated to new curbside locations. Culverts will need to be replaced. Several hydrants will need to be relocated. The majority of gate valves and curb stops have recently been relocated by the Water District to accommodate the project. In addition, minor grade adjustments will need to be made to water valves and manhole frames and covers.
- **RR PRTS:** N/A
- **Railroad Agreement:** N/A

Geotechnical Coordination

- **Field Analysis:** Borings were conducted to determine ledge depths on May 17, 2012. Ledge location and depth is shown on the profiles on sheets C-06 through C-10. Ledge removal for underground utility installation has been incorporated into the cost estimate on the basis of information obtained during the probes.
- **Preliminary Recommendations:** N/A

Public Process

- **Proposed Public Contact Method and Date:** A public Planning Board meeting was held in Kittery on February 23, 2012 to provide an opportunity for the public to comment on the design. Comments from the meeting have been reviewed with town officials to determine which comments will be applied to the design. Notes from the Planning Board meeting, as well as an attendee list, have



been included with this PDR. Several attendees were supportive of the sidewalk, but voiced concerns that installing the curb will make conditions unsafe for bicyclists. It should be noted that on either side of this .5 mile stretch of roadway affected by the proposed sidewalk, Whipple Road is curbed, with an approximately 2' curb offset, similar to what is proposed. The property owner most affected by the project (Millett, #135 and #141 Whipple Road) is concerned about the sidewalk being constructed close to her home and raised concerns about protection from automobiles and blasting during construction causing future impacts to properties.

Construction Schedule

- *Construction funding will not become available until July of 2013.*
- **Advertise:** 7-08-13
- **Construction Begin:** 8-19-13
- **Construction Complete:** 11-1-13
- **Maintenance of Traffic Issues/Concerns:** Maintenance of Traffic will be per MUTCD standards. Most of the work will be at the edges of Route 103/Whipple Road. It is anticipated that no road closures will be necessary to construct this project, however, temporary one lane alternating of traffic may be necessary to conduct the work.

Budget

- **Summary:** The current probable construction cost estimate for the sidewalk project is approximately \$613,000, a figure that will change as the plans are refined, based on the outcome of the design review process. See the table below for a breakdown of general costs. A detailed schedule item construction cost estimate and right-of-way cost estimate are provided as Attachment 5. The Town's share of the cost after PE will be approximately 33%, which results in a Town share of approximately \$265,000 including r-o-w acquisition, r-o-w mapping and negotiation, construction, and CE.

	Current	Estimate	Future Need
PE	\$18,000	\$24,600	\$6,600 (already under contract)
Right of Way Acquisition	\$0	\$33,300	\$33,300
Right of Way Mapping (under contract)	\$0	\$11,000	\$11,000
Right of Way Negotiation/Administrative	\$0	\$75,000	\$75,000
Construction	\$0	\$612,890	\$612,890
CE	\$0	\$61,289	\$61,289
TOTAL	\$18,000	\$818,079	\$800,079

Summary of Preliminary Engineering

- **Project History:** Planning and initial design of this project began many years ago. The project faltered in the face of abutter opposition. In 2010, the Town applied for a Quality Community grant using a preliminary design that did not take into account the full extent of impacts to adjacent properties and that seems to have been based on an assumed 40'-0" right-of-way that was 7'-0" wider than the existing 33'-0" right-of-way on Whipple Road.
- **Existing Conditions:**
 - Geometrics: 11' travel lanes, shoulder width approximately 2'-0", no curb in the project area, but granite curb on both ends of the project area
 - Pavement Structure: Thickness varies –generally 2" at edges, 8" in the center
 - Drainage/Hydrology: The roadway is currently uncurbed, with five catch basins intercepting runoff on the north side of the roadway, within the project area. Three culverts connected to the catch basins outlet on the south side of Whipple Road
 - Right-of-Way/Utilities: See above.



- **Proposed Design:**
 - Typical Section: 11'-0" travel lane/2'-0" shoulder/granite curb/5'-0" fiberglass reinforced concrete sidewalk (from face of curb)
 - Alignment: Follows road centerline
 - Drainage: Drainage structures will be tied into the three existing culverts to be replaced, addressing the stormwater that is intercepted by the proposed curb. Drainage inlets will be introduced on some properties where the proposed sidewalk would interrupt current drainage patterns, potentially causing ponding. Additionally, between STA 32+00 LT and 34+00 LT, where existing grades are particularly flat, a 6" underdrain will be introduced to assist with drainage to the north of the proposed sidewalk.
 - Right-of-Way/Utilities: See above.
 - Specific Design Issues: See summary of design considerations, below



- **Sidewalk Section:**
 - Width: typically 5'-0", including granite curb (7" reveal), with a small area of 6'-0", including granite curb (7" reveal)
 - Surface: 4 inch depth of fiberglass reinforced Portland cement concrete
 - Base Material: 12 inch depth of aggregate base type "D".

Whipple Road Sidewalk Preliminary Design Report

Kittery, ME
019394.00

- Cross Slope: 2%.
- **Shoulder Section:**
 - Width: 2 feet.
 - Surface: 2 inch depth 12.5 MM Hot Mix Asphalt base course and 1 1/2 inch depth 12.5 MM Hot Mix Asphalt surface course.
 - Base Material: Existing gravel shoulder base material will be reconstructed in accordance with MaineDOT specification section 205.
 - Cross Slope: Matches existing



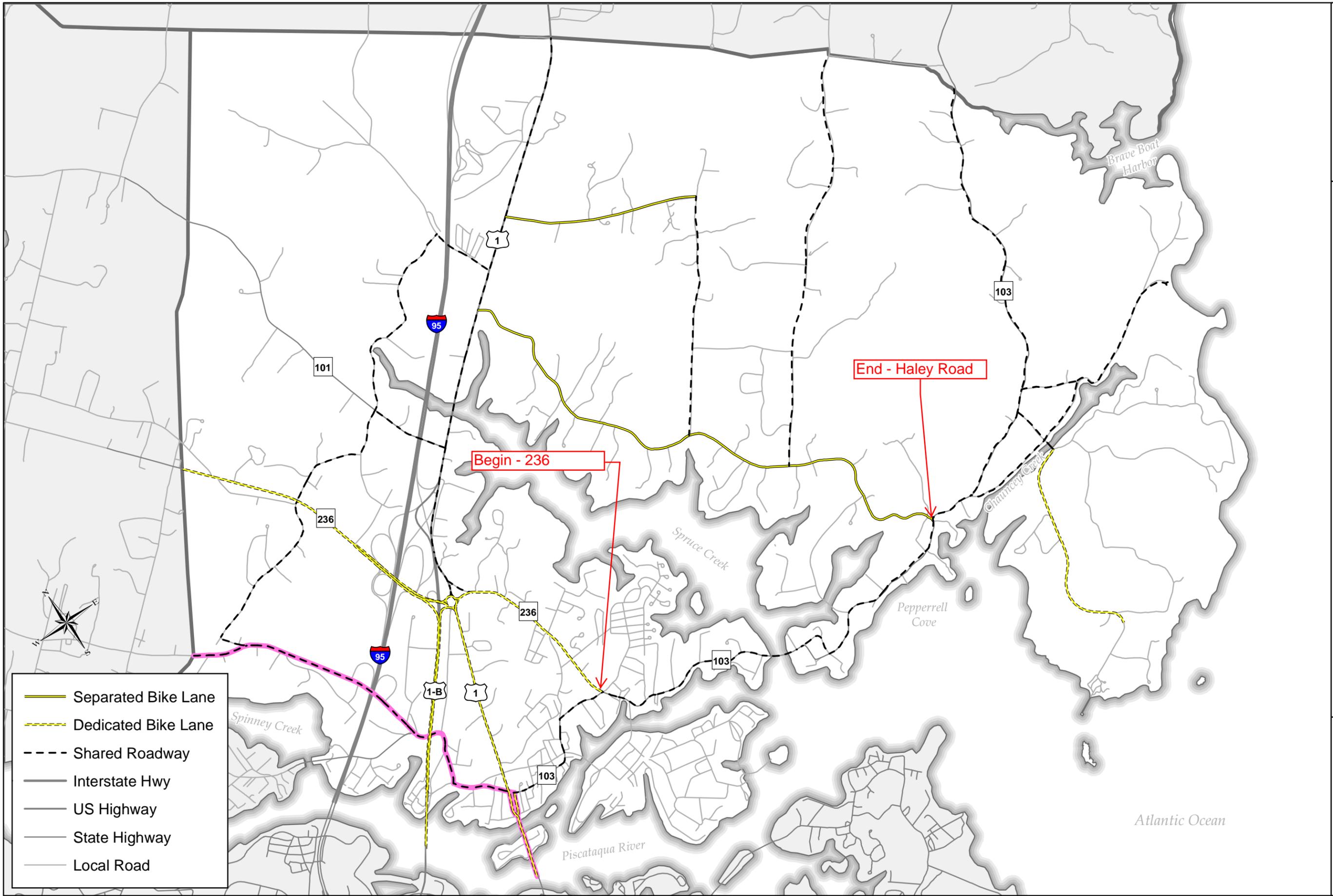
Approvals

	Date	Approved by:
Approved for Preliminary Plan:	_____	_____
Public Participation Complete:	_____	_____
Approved for Final Design:	_____	_____

ATTACHMENT 1a
Preliminary Plans and Details

ATTACHMENT 1b
Preliminary Right-of-Way Plans

ATTACHMENT 2
Proposed Kittery Bicycle Routes Plan



- Separated Bike Lane
- Dedicated Bike Lane
- Shared Roadway
- Interstate Hwy
- US Highway
- State Highway
- Local Road

Map Index:
 File Ref:
 MasterPlan-BikeRoutes.mxd



Proposed Bicycle Routes

Prepared for Kittery Public Works by Jeff Normandin, Axis GeoGraphics



Date:
June 29, 2011

ATTACHMENT 3
Whipple Road Shared Lane Signage and Traffic Marking Plan

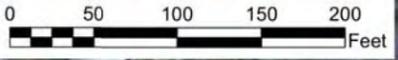
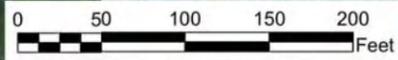
Source:
Aerial imagery obtained from ESRI online services.
Road data obtained from the Maine Office of GIS.
Figure developed by Wright-Pierce GIS Dept

NOTES:
1. ALL SIGNS AND MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION.
2. CENTER OF SHARED LANE MARKING (SHARROW) SHALL BE 4 FEET FROM EDGE OF TRAVEL WAY.



LEGEND

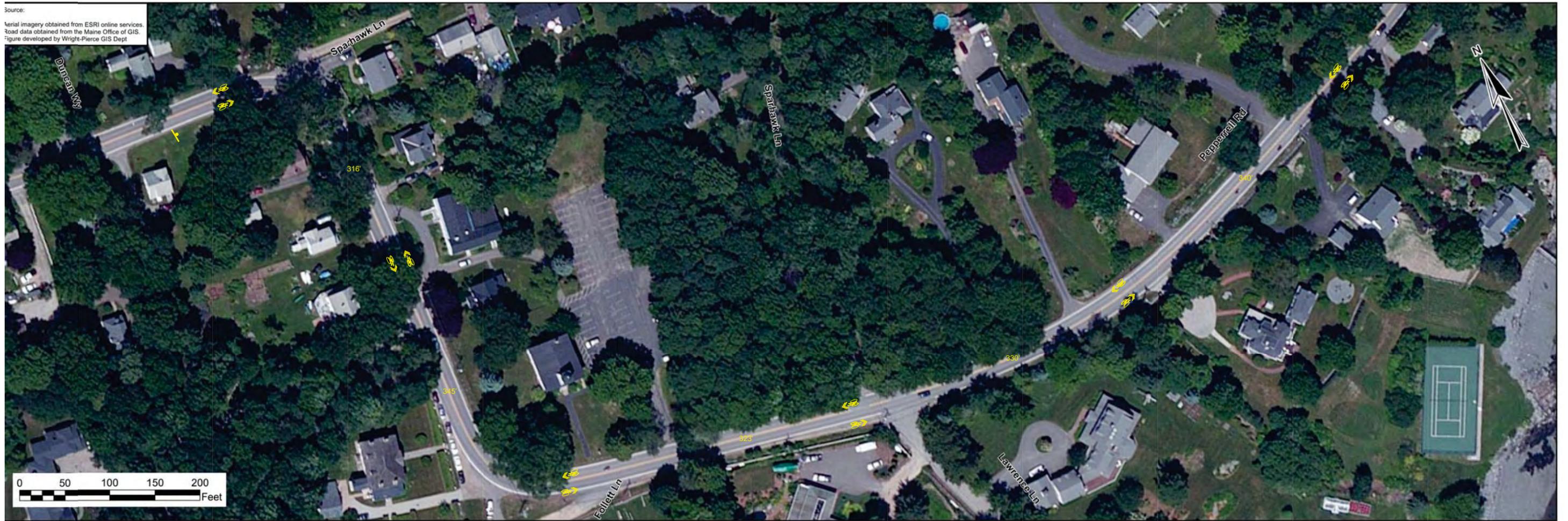
- SHARROW WITHIN WHIPPLE ROAD SIDEWALK PROJECT
- SHARROW OUTSIDE OF WHIPPLE ROAD SIDEWALK PROJECT
- SIGN WITHIN WHIPPLE ROAD SIDEWALK PROJECT
- SIGN OUTSIDE OF WHIPPLE ROAD SIDEWALK PROJECT



Source:
Aerial imagery obtained from ESRI online services.
Road data obtained from the Maine Office of GIS.
Figure developed by Wright-Pierce GIS Dept



Source:
Aerial imagery obtained from ESRI online services.
Road data obtained from the Maine Office of GIS.
Figure developed by Wright-Pierce GIS Dept.



Proposed Bicycle Route
Kittery, Maine
PROJ NO: MTB12 DATE: Feb 2012 FIGURE:
WRIGHT-PIERCE 
Engineering a Better Environment **3**

Source:
Aerial imagery obtained from ESRI online services.
Road data obtained from the Maine Office of GIS.
Figure developed by Wright-Pierce GIS Dept



ATTACHMENT 4
Documentation of Public Process

ITEM 3 – Whipple Road Sidewalk –Plan for 2500 linear feet of concrete sidewalk on northerly side of Whipple Road (Route 103) beginning at Wyman Avenue and ending across the street from Old Ferry Lane. Presentation by Kittery Department of Public Works and Wright-Pierce Engineers.

Mary-Ann Conroy, Commissioner of Public Works, summarized the plan status and introduced the project engineers. Once the design is accepted, construction funds are guaranteed. Residents are invited to meet with her to discuss any additional concerns.

Jennifer Claster, Wright-Pierce, summarized the plan in its preliminary plan design stage. Primary issues are ledge, easements and a narrow ROW. Utilities will be re-located to the other side of Whipple Road. Some fencing, lawns and landscape beds will need to be re-located. ‘Share-the-Road’ arrow pavement markings will be included. One-on-one meetings with residents will be offered to address any individual concerns. Comments and concerns will be incorporated into a design report. Depending upon timing of state review and permitting, construction could begin in the fall of 2012.

Public Comment:

Thanasis Tornus, 150 Whipple Road, stated the project is good for the Town. He commended the quality of work recently completed by the Water District crew.

David Leach, 153 Whipple Road stated he is in favor of the improvements but noted his concern about drainage impact on driveways and the curb height impact on bicyclists who must travel in a narrow area.

Mark Svenson, 201 Whipple Road, stated he is in favor of the sidewalk addition.

Elizabeth Millett, 141 & 135 Whipple Road, explained the proposed sidewalk impacts her home at 141 Whipple Road and is concerned about traffic so close to her property. She echoed concerns about drainage and the curb height. She also asked how blasting will impact properties long after construction ends. She also commended the Water District crew on their work in the area.

Catherine Ciak, 153 and 159 Whipple Road, supports the sidewalk, but is also concerned about the curb height.

Ed Golden, 161 Whipple Road, originally opposed the sidewalk construction because of drainage issues, but is hopeful this issue will be carefully considered and adequately designed.

Diedre McEachern, 16 Trefethean Avenue, will the sidewalk and curbs be handicapped accessible? **Ms. Conroy** stated they would be, as required by law.

Ms. Tuveson asked about bike rallies along this road. **Ms. Conroy** stated this would be encouraged. She also advised that a petition to reduce the speed limit on this stretch of road should be submitted to the Police Department. **Ms. Conroy** explained videos are taken before and after blasting and there is a one-year period following blasting to report problems. **Ms. Driscoll** asked if this time frame could be expanded. **Mr. Emerson** suggested signage be included to advise motorists of bicyclist use in the area.

Ms. Claster stated ‘bikes may use full lane’ signage will be included at both ends of the roadway to warn motorists. **David Leach** asked if additional catch basins will be installed. **John Edgerton**, Wright-Pierce, stated additional catch basins will be installed to off-set the sidewalk installation. **Mr. Balano** noted his concern about the safety issue at 141 Whipple Road. **Ms. Conroy** suggested granite survey markers could be installed to help at this location, but the sidewalk curbing will provide more protection than what currently exists. **Mr. Mylroie** asked about the height of the new retaining walls. **Ms. Claster** stated they range from 2 feet to 2.5 feet high and will resemble stone walls. **Mr. Leach** asked about the stone wall in front of his property. **Ms. Conroy** stated structures or improvements in the ROW could be removed, but only if necessary. **Mr. Mylroie** requested new road lighting be dark sky compliant.

No Board action was taken.

ATTACHMENT 5
Detailed Cost Estimate

Whipple Road Sidewalk Project
 Kittery, Maine
 Preliminary Opinion of Probable Construction Cost - with ROW and Construction Engineering
 August 2012
 W-P Project # 12423A/MaineDOT PIN 0019394.00

Pay Item Number	Item Description	Approximate Quantity	Unit of Measure	Unit Price Dollars	Amount Dollars	Eligible (Y/N/PART)	DOT Contribution	Town of Kittery Contribution
201.111	CLEARING	0.10	AC	\$6,000.00	\$600.00	Y	\$480.00	\$120.00
201.23	REMOVING SINGLE TREE - TOP ONLY	7	EA	\$350.00	\$2,450.00	Y	\$1,960.00	\$490.00
201.24	REMOVING STUMP	7	EA	\$350.00	\$2,450.00	Y	\$1,960.00	\$490.00
202.01	REMOVING PILLAR, CURBING, AND RETAINING/FREESTANDING WALLS TO BE DEMOLISHED	1	LS	\$7,000.00	\$7,000.00	Y	\$5,600.00	\$1,400.00
202.15	REMOVE MANHOLE OR CATCH BASIN	4	EA	\$500.00	\$2,000.00	Y	\$1,600.00	\$400.00
202.20	REMOVING BITUMINOUS CONCRETE PAVEMENT	1830	SY	\$8.00	\$14,640.00	Y	\$11,712.00	\$2,928.00
202.203	GRINDING FOR PAVEMENT OVERLAY AT SHOULDER JOINT	300	SY	\$15.00	\$4,500.00	Y	\$3,600.00	\$900.00
203.20	COMMON EXCAVATION FOR SIDEWALK AND RELATED GRADING	770	CY	\$20.00	\$15,400.00	Y	\$12,320.00	\$3,080.00
203.21	ROCK EXCAVATION	50	CY	\$175.00	\$8,750.00	Y	\$7,000.00	\$1,750.00
203.24	COMMON BORROW FOR SIDEWALK AND RELATED GRADING	20	CY	\$25.00	\$500.00	Y	\$400.00	\$100.00
205.42	RECONSTRUCTION OF EXISTING SHOULDER	600	SY	\$15.00	\$9,000.00	Y	\$7,200.00	\$1,800.00
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE & MINOR STRUCTURES BELOW GRADE***	10	CY	\$35.00	\$350.00	Y	\$280.00	\$70.00
206.07	STRUCTURAL ROCK EXCAVATION - DRAINAGE & MINOR STRUCTURES	380	CY	\$150.00	\$57,000.00	Y	\$45,600.00	\$11,400.00
304.10	AGGREGATE SUBBASE COURSE - TYPE D - 12" UNDER SIDEWALKS	350	CY	\$25.00	\$8,750.00	Y	\$7,000.00	\$1,750.00
304.10	AGGREGATE SUBBASE COURSE - TYPE D - 13" UNDER DRIVEWAY APRONS	200	CY	\$25.00	\$5,000.00	Y	\$4,000.00	\$1,000.00
403.207	HOT MIX ASPHALT, 19.0 MM BINDER	390	TON	\$110.00	\$42,900.00	Y	\$34,320.00	\$8,580.00
403.208	HOT MIX ASPHALT, 12.5 MM SURFACE	130	TON	\$125.00	\$16,250.00	Y	\$13,000.00	\$3,250.00
403.209	HOT MIX ASPHALT, 9.5 MM - 2" ON DRIVEWAYS	100	TON	\$150.00	\$15,000.00	Y	\$12,000.00	\$3,000.00
409.15	BITUMINOUS TACK COAT, APPLIED	230	GAL	\$15.00	\$3,450.00	Y	\$2,760.00	\$690.00
525.321	REMOVE, RESET, AND EXTEND MORTARED COBBLE RETAINING WALL	80	SF	\$100.00	\$8,000.00	Y	\$6,400.00	\$1,600.00
602.30	FLOWABLE CONCRETE FILL - FOR ABANDONED CULVERT AND 12" SD @ STA 28+15	10	CY	\$150.00	\$1,500.00	Y	\$1,200.00	\$300.00
603.159	12" CULVERT PIPE OPTION III - SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE	80	LF	\$60.00	\$4,800.00	Y	\$3,840.00	\$960.00
603.169	15" CULVERT PIPE OPTION III - SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE	1,160	LF	\$60.00	\$69,600.00	Y	\$55,680.00	\$13,920.00
604.000	CATCH BASIN - 4' DIA, FLAT SLAB TOP	18	EA	\$2,500.00	\$45,000.00	Y	\$36,000.00	\$9,000.00
604.000	CATCH BASIN - 2' DIA, "TYPE F"	2	EA	\$2,000.00	\$4,000.00	Y	\$3,200.00	\$800.00
604.15	MANHOLE	1	EA	\$2,500.00	\$2,500.00	Y	\$2,000.00	\$500.00
604.164	REBUILD CATCH BASIN - CORE EXISTING DRAINAGE STRUCTURE FOR 15" SD	1	EA	\$2,000.00	\$2,000.00	Y	\$1,600.00	\$400.00
605.09	6" UNDERDRAIN TYPE B	200	LF	\$35.00	\$7,000.00	Y	\$5,600.00	\$1,400.00
608.08	REINFORCED CONCRETE SIDEWALK - 5,075 PSI WITH FIBER REINFORCEMENT	1,000	SY	\$90.00	\$90,000.00	PART	\$13,200.00	\$76,800.00
608.10	BRICK SIDEWALK - REMOVE AND REBUILD	10	SY	\$45.00	\$450.00	Y	\$360.00	\$90.00
608.26	CURB RAMP DETECTABLE WARNING FIELD	54	SF	\$75.00	\$4,050.00	Y	\$3,240.00	\$810.00
609.11	VERTICAL GRANITE CURB TYPE 1 WITH FLOWABLE FILL	1,905	LF	\$40.00	\$76,200.00	PART	\$16,764.00	\$59,436.00
609.1113	GRANITE CURB WALL - SPECIAL GRANITE CURB 30" TO 33"	140	LF	\$100.00	\$14,000.00	Y	\$11,200.00	\$2,800.00
610.08	PLAIN RIPRAP FOR OUTLETS	30	CY	\$75.00	\$2,250.00	Y	\$1,800.00	\$450.00
615.07	LOAM - 4" DEPTH	200	CY	\$40.00	\$8,000.00	Y	\$6,400.00	\$1,600.00
618.13	SEEDING METHOD NUMBER 1 (1 UNIT = 1,000 SF)	15	UNIT	\$25.00	\$375.00	Y	\$300.00	\$75.00
619.12	MULCH - CELLULOSE FIBER (1 UNIT = 1,000 SF)	15	UNIT	\$25.00	\$375.00	Y	\$300.00	\$75.00
620.6	SEPARATION GEOTEXTILE FOR RIP RAP AREAS	50	SY	\$3.00	\$150.00	Y	\$120.00	\$30.00
627.71	4" WHITE PAVEMENT MARKING LINE - SHOULDER - ONE SIDE ONLY	2,500	LF	\$0.50	\$1,250.00	Y	\$1,000.00	\$250.00
627.75	WHITE PAVEMENT MARKING - 19 SHARROW SYMBOLS	570	SF	\$2.00	\$1,140.00	N	\$0.00	\$1,140.00
629.05	HAND LABOR, STRAIGHT TIME	2	HR	\$40.00	\$80.00	Y	\$64.00	\$16.00

631.12	ALL-PURPOSE EXCAVATOR (INC OPER.)	2	HR	\$130.00	\$260.00	Y	\$208.00	\$52.00
645.106	DEMOUNT REGULATORY, WARNING, ROUTE MARKER SIGN	2	EA	\$200.00	\$400.00	Y	\$320.00	\$80.00
645.116	REINSTALL REGULATORY, WARNING, ROUTE MARKER SIGN	2	EA	\$200.00	\$400.00	Y	\$320.00	\$80.00
645.271	INSTALL REGULATORY SIGN TYPE 1 - 1 "SHARE THE ROAD" 30" X 30"	6.25	SF	\$40.00	\$250.00	N	\$0.00	\$250.00
652.38	FLAGGER	460	HR	\$22.00	\$10,120.00	Y	\$8,096.00	\$2,024.00
652.390	WORK ZONE TRAFFIC CONTROL	1	LS	\$12,800.00	\$12,800.00	Y	\$10,240.00	\$2,560.00
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS	\$7,500.00	\$7,500.00	Y	\$6,000.00	\$1,500.00
656.750	TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL	1	LS	\$5,000.00	\$5,000.00	Y	\$4,000.00	\$1,000.00
659.10	MOBILIZATION	1	LS	\$10,000.00	\$10,000.00	Y	\$8,000.00	\$2,000.00
801.03	TEST PITS	10	EA	\$400.00	\$4,000.00	Y	\$3,200.00	\$800.00
801.44	SEWER PIPE INSULATION	150	LF	\$5.00	\$750.00	Y	\$600.00	\$150.00
841.451	OPT. I BOLLARD (ROCK FACE GRANITE POST) 6" X 6" X 8'	2	EA	\$600.00	\$1,200.00	N	\$0.00	\$1,200.00
841.452	OPT. II BOLLARD (ROCK FACE GRANITE WALL POST) 14" X 14" X 8'	1	EA	\$1,500.00	\$1,500.00	N	\$0.00	\$1,500.00
***INDETERMINATE QUANTITY				Estimate Sub-Total	\$612,890.00		\$384,044.00	\$228,846.00
				ROW ACQUISITION	\$33,300.00		\$26,640.00	\$6,660.00
				ROW MAPPING	\$11,000.00		\$8,800.00	\$2,200.00
				ROW NEGOTIATION & ADMINISTRATION	\$75,000.00		\$60,000.00	\$15,000.00
				CE (10% OF CONSTRUCTION)	\$61,289.00		\$49,031.20	\$12,257.80
				TOTALS	\$793,479.00		\$528,515.20	\$264,963.80
				DIFFERENCE BETWEEN GRANITE AND ASPHALT CURB	\$55,245.00			
				DIFFERENCE BETWEEN CONCRETE AND ASPHALT SIDEWALK	\$73,500.00			
				COST OF SHARROWS AND SHARED LANE SIGNAGE FOR THIS PHASE	\$1,390.00			

Whipple Road Sidewalk Project
 Kittery, Maine
 Preliminary Right of Way Impacts
 July 2012
 W-P Project # 12423A/MaineDOT PIN 0019394.00

Map/Lot	Name	House No.	Mailing Address	Town	State	ZIP	Sq Feet Taken	Acreage Taken	Assessors Est. Value	Misc. Impacts	DPW Est. Value	Physical Impacts	Total Estimated Value per Town of Kittery Staff
10/102	Edward F. Goodwin	115	115 Whipple Road	Kittery	ME	03904-1316	1036	0.024	\$ 500.00	slope easement	\$ -		\$ 500.00
10/-7	Robert W. Teifert/Olive C. Teifert	118	118 Whipple Road	Kittery	ME	03904-1341	0	0	\$ -	perscriptive rights	\$ -		\$ -
10/103	Irving E. Whitney	119	119 Whipple Road	Kittery	ME	03904-1341	347	0.008	\$ 7,100.00	slope/constr esmt	\$ -		\$ 7,100.00
10/106	William J. Mace/Mary A. Mace	125	125 Whipple Road	Kittery	ME	03904-1316	378	0.009	\$ 600.00	slope/drain/constr	\$ 100.00	relocate mailbox	\$ 700.00
10/107	Faith V. Easter	129	44 Juniper Lane	Framingham	MA	01701	1163	0.027	\$ 800.00	slope/drain/constr	\$ 12,200.00	relocate 110LF fence, roses, 100LF stone wall	\$ 13,000.00
10/114	Doria M. Millett/Gordon H. Millett	135	141 Whipple Road	Kittery	ME	03904-1344	1089	0.025	\$ 2,700.00	slope/drain esmt	\$ -		\$ 2,700.00
10/115	Gordon H. Millett	141	141 Whipple Road	Kittery	ME	03904-1344	97	0.002	\$ 200.00	slope easement	\$ 100.00	relocate shrubs, fowers	\$ 300.00
10/116	Joyce R. Seward	147	147 Whipple Road	Kittery	ME	03904-1344	759	0.017	\$ 1,800.00	slope/constr esmt, wall?	\$ -		\$ 1,800.00
16/200	David S. Leach/Katherine Ciak	153	153 Whipple Road	Kittery	ME	03904-1344	584	0.013	\$ 100.00	slope/constr esmt	\$ -		\$ 100.00
16/201	Katherine Ciak	159	153 Whipple Road	Kittery	ME	03904-1344	321	0.007	\$ 100.00	slope easement	\$ -		\$ 100.00
16/214	William C. Nau/Sharon E. Nau	160	160 Whipple Road	Kittery	ME	03904-1341	0	0	\$ -	drain/constr esmt	\$ -		\$ -
16/202	Hendrika C. Overton	161	161 Whipple Road	Kittery	ME	03904-1341	345	0.008	\$ -	slope easement	\$ -		\$ -
16/203	Varrell L. Wakefield/Mary G. Wakefield	163	163 Whipple Road	Kittery	ME	03904-1341	109	0.003	\$ -	slope esmt/shrubs need relocating	\$ -		\$ -
16/204	Sherley Abrams, Trustee	165	P.O. Box 472	Kittery	ME	03904-0472	4	0.001	\$ -	constr esmt	\$ -		\$ -
16/205	John Seath, Jr./Glenn Gerace	167	167 Whipple Road	Kittery	ME	03904-1344	405	0.009	\$ 300.00	slope/constr esmt	\$ 100.00	relocate shrubs	\$ 400.00
17/24	Robert A. Arens	168	168 Whipple Road	Kittery	ME	03904-1344	0	0	\$ -	perscriptive rights	\$ -		\$ -
17/32	Kathleen T. Staples/Waldo E. Staples, Jr.	169	169 Whipple Road	Kittery	ME	03904-1344	386	0.009	\$ 400.00	slope/drain esmt	\$ -		\$ 400.00
17/33	Catherine A. Chase/William H. Chase	171	171 Whipple Road	Kittery	ME	03904-1344	361	0.008	\$ 1,800.00	slope easement	\$ -		\$ 1,800.00
17/34	Paul A. Withee	173	173 Whipple Road	Kittery	ME	03904-1343	796	0.018	\$ 100.00	slope/drain esmt	\$ -		\$ 100.00
17/35	Michael J. Palos/Jessica M. Palos	181	181 Whipple Road	Kittery	ME	03904-1343	1063	0.024	\$ 1,100.00	slope easement	\$ -		\$ 1,100.00
17/37	Eileen D. McCue/David E. McCue	189	17 Clark Road	Rye	NH	03870	208	0.005	\$ 400.00	slope/drain esmt	\$ -		\$ 400.00
17/38	Bette A. Burbank/Barbara M. Connolly	191	191 Whipple Road	Kittery	ME	03904-1343	581	0.013	\$ 1,000.00	slope/constr esmt	\$ -		\$ 1,000.00
17/39	Carleton W. Frye/Constance M. Frye	195	195 Whipple Road	Kittery	ME	03904-1343	715	0.016	\$ 200.00	slope/constr esmt	\$ 100.00	relocate mailbox	\$ 300.00
17/41	Donald C. King/Sarah King	199	199 Whipple Road	Kittery	ME	03904-1343	78	0.002	\$ 100.00	slope easement	\$ -		\$ 100.00
17/40	Marc C. Svenson/Tammy P. Svenson	201	201 Whipple Road	Kittery	ME	03904-1343	249	0.006	\$ 1,400.00	slope esmt, timbers, walk	\$ -		\$ 1,400.00
17/42	Steven M. Dines	205	205 Whipple Road	Kittery	ME	03904-1343	38	0.001	\$ -	slope esmt, wall	\$ -		\$ -
	Total						10076	0.255	\$ 20,700.00		\$ 12,600.00		\$ 33,300.00

ATTACHMENT 6
Pole List (February, 2012) and Markup (May, 2012)

PROJECT NAME: WHIPPLE ROAD FED NUMBER: 12423A PROJECT NUMBER: 253758

PREPARED BY: ERNEST KANGAS, JR. DATE: 9-Feb-12 PROPOSED BY: ERNEST KANGAS, JR.

Existing			Proposed Grade Change		Design Speed		Proposed by Utility		Approved by NHDOT		Grade	
Station	Offset	Pole Identification	Leave/Remove	Occupant	Cut	Fill	Remarks	Station	Offset	Station	Offset	Grade
11+50	LT.22	CMP 36, FP 235/36	Leave	COMCAST								Cut
11+60	LT.21	CMP 363, FP 235/363	L	COMCAST								
12+80	LT.21	CMP 38, FP 235/38	R	COMCAST				12+79	LT.26			
14+13	LT.19	CMP 40, FP 235/40	L	COMCAST								
15+31	LT.20	CMP 41, FP 235/41	R	COMCAST			PLAGE AT CURB					
16+33	LT.19	CMP 43, FP 235/43	L	COMCAST				15+32	LT.16			
17+37	LT.18	CMP 44, FP 235/44	R	COMCAST				17+40	LT.22			
17+19	RT.20	CMP 44S, FP 235/44S	L	COMCAST			OMIT POLE					
18+10	LT.19	CMP 45, FP 235/45	R	COMCAST			RELOCATE ACROSS THE ROAD	19+17	RT.19			
19+08	LT.14	CMP 46, FP 235/46	R	COMCAST			REPLACE WITH NEW FP 235/46					
19+17	RT.19	CMP 46S, FP 235/46S	R	COMCAST			RELOCATE ACROSS THE ROAD	20+02	RT.17			
20+08	LT.19	CMP 47, FP 235/47	R	COMCAST			REPLACE WITH NEW 235/47					
20+02	RT.17	CMP 47S, FP 235/47S	R	COMCAST				21+33	LT.17			
21+25	LT.13	CMP 48, FP 235/48	R	COMCAST								
21+21	RT.20	CMP 48S, FP 235/48S	L	COMCAST								
22+14	LT.19	CMP 49, FP 235/49	L	COMCAST								
23+30	LT.16	CMP 50, FP 235/50	R	COMCAST				23+31	LT.17			
24+09	LT.11	CMP 51, FP 235/51	R	COMCAST			OMIT POLE					
24+93	LT.16	CMP 52, FP 235/52	R	COMCAST				24+96	LT.19			
25+64	LT.17	CMP 53, FP 235/53	R	COMCAST				25+67	LT.20			
26+21	LT.19	CMP 54, FP 235/54	R	COMCAST				26+22	LT.20			
26+98	LT.18	CMP 55, FP 235/55	R	COMCAST				27+00	LT.20			
27+67	LT.18	CMP 56, FP 235/56	L	COMCAST								
28+66	LT.20	CMP 57, FP 235/57	L	COMCAST								
29+69	LT.25	CMP 58, FP 235/58	L	COMCAST								
30+48	LT.19	CMP 59, FP 235/59	L	COMCAST								
31+69	LT.20	CMP 60, FP 235/60	L	COMCAST								
32+66	LT.21	CMP 61, FP 235/61	L	COMCAST								
33+80	LT.19	CMP 62, FP 235/62	L	COMCAST								
35+05	LT.20	CMP 63, FP 235/63	R	COMCAST				35+04	LT.22			
36+29	LT.16	CMP 64, FP 235/64	R	COMCAST			OMIT POLE					
37+16	LT.27	CMP 65, FP 235/65	L	COMCAST			SERVICE POLE-RESTN.235/65-1					
36+30	LT.19	CMP 64S, FP 235/64S	L	COMCAST								
37+80	LT.20	CMP 65, FP 235/65	R	COMCAST			NEW ACROSS THE ROAD	37+80	RT.20			
39+36	LT.17	CMP 66, FP 235/66	R	COMCAST				39+23	LT.18			

POLE ATTACHEES & CONTACTS:

NJUNS PRIORITY CODE:0
 POWER CO: CENTRAL MAINE POWER COMPANY
 CONTACT: GERRY NORTON 207,779-9118
 CATV: COMCAST

CONTACT: GEORGE KIRKWOOD 603,679-5695, EXT.1007

TOWN OF KITTERY DEPT. OF PUBLIC WORKS

CONTACT: MARY ANN CONROY 207,439-0333

WRIGHT-PIERCE ENGINEERING:

CONTACT: LYNDSAY BUTLER 603,570-7114

CONTACT: JENNIFER CLASTER 207,319-1506

TRACKING UNIT = 151711

603.528-7354

FAIRPOINT

SAFETY NOTES: Traffic Control Required		MOD./REV NO	DATE:	ORDER / ESTIMATE #	253758
SIGNATURE: 		PRE CT	YES NO	PRINT	1 OF 7
DATE: 2/8/12		PHASE TO GROUND		PREPARED BY:	Ernest Kangas, Jr.
13.0 KV		4.160 KV		C.O. / EXCHANGE NAME:	PORTSMOUTH
SYSTEM TYPE: MGN		Underground		C.O. / EXCHANGE CODE:	9176
CABLE PRESSURE		UNDER PRESS YES NO		MUNICIPALITY:	KITTERY
TRANSMISSION		26GA LIMIT YES NO		AMT. BRIDGE TAP	RF
ELECTRIC COMPANY NAME: CENTRAL MAINE POWER COMPANY		TEL. CO.		EL. CO.	CATV
EXCHANGE OF NOTICE / MEMO #		-		-	

**TOWN OF KITTERY, ME.
 SIDEWALK PROJECT**

WHIPPLE ROAD

TO
 CENTRAL
 OFFICE

CMP 36
 FP 235/36
 LAT: 43.05172
 LON: 70.43909

OK
 CMP 38
 FP 235/38
 LAT: 43.05164
 LON: 70.43882
 PL.45' POLE
 RM.40' POLE

CMP 40
 FP 235/40
 LAT: 43.05156
 LON: 70.43854
 PL.45' POLE
 RM.40' POLE

CMP 41
 FP 235/41
 LAT: 43.05150
 LON: 70.43829
 PL.45' POLE
 RM.40' POLE
 RM.35' PB POLE

AT CURB
 PB
 2.5'
 1'

CENTRAL MAINE POWER TO COORDINATE ALL REQUIRED TREE TRIMMING.

ALL PROPERTY RIGHTS TO BE OBTAINED BY TOWN OF KITTERY, ME.
 OR ENGINEERING FIRM: WRIGHT-PIERCE FOR ALL NEW POLES AND ANCHORS

FAIRPOINT AND CENTRAL MAINE POWER
 TO STAKE ALL PROPOSED POLE LOCATIONS

ROSE LANE

WAITING POLE SET(S)
 POLE STATUS (TRANSFERERS)

WAITING LITS.
 WAITING MUNI.
 WAITING CLEC
 WAITING CATV
 WAITING TEL

POLE ATTACHEES & CONTACTS:
NUMS PRIORITY CODE: 0
POWER CO: CENTRAL MAINE POWER COMPANY
CONTACT: GERRY NORTON 207.779-9118
CATV: COMCAST
CONTACT: GEORGE KIRKWOOD 603.679-5695, EXT. 1007
TOWN OF KITTERY DEPT. OF PUBLIC WORKS
CONTACT: MARY ANN CONROY 207.439-0333
WRIGHT-PIERCE ENGINEERING:
CONTACT: LYNDASAY BUTLER 603.570-7114
CONTACT: JENNIFER CLASTER 207.319-1506

TRACKING UNIT = 151711 603,528-7354 **FAIRPOINT**

ORDER / ESTIMATE # 253758
 PRINT 2 OF 7
 PREPARED BY: Ernest Kangas, Jr.
 C.O. / EXCHANGE NAME: PORTSMOUTH

DATE: -
 CA DIAG. # -
 C.O. / EXCHANGE CODE: 9176
 MUNICIPALITY: KITTERY

MANHOLE LOCATION MH: KF

TRAFFIC CONTROL REQUIRED

SIGNATURE: 2/8/12
 DATE: 2/8/12

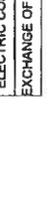
PHASE TO GROUND: 4.160 KV
 SYSTEM TYPE: MGN
 UNDER PRESS: YES NO
 28GA LIMIT: YES NO

PHASE TO PHASE: 13.0 KV
 CABLE PRESSURE: -
 TRANSMISSION: -

AMT. BRIDGE TAP: -
 BUFFER: YES NO
 CABLE DIAG. TYPE: Aerial
 Buried
 Underground

EL. CO. -
 TEL. CO. -
 CATV -

ELECTRIC COMPANY NAME: CENTRAL MAINE POWER COMPANY



WHIPPLE ROAD

NO

CMP 44
 FP 235/44
 PL.45' POLE
 RM.40' POLE
 PL.ANCHOR
 PL.GUY WIRE
 RM.GUY WIRE

LAT:43.05146
 LON:70.43778

CMP 43
 FP 235/43

LAT:43.05147
 LON:70.43806

CMP 45
 FP 235/45
 RM. 40' POLE

LAT:43.05144
 LON:70.43764

CMP 46
 FP 235/46
 RM. 40' POLE

LAT:43.05140
 LON:70.43745

CMP 44S
 FP 235/44S

LAT:43.05143
 LON:70.43785

CMP (46S)46
 FP 235/(46S)46
 PL.50' POLE
 RM.30' POLE
 PL.GUY WIRE
 RM.GUY WIRE

LAT:43.05136
 LON:70.43742

CENTRAL MAINE POWER TO COORDINATE ALL REQUIRED TREE TRIMMING.
 ALL PROPERTY RIGHTS TO BE OBTAINED BY TOWN OF KITTERY, ME.
 OR ENGINEERING FIRM: WRIGHT-PIERCE FOR ALL NEW POLES AND ANCHORS
 FAIRPOINT AND CENTRAL MAINE POWER
 TO STAKE ALL PROPOSED POLE LOCATIONS

REPLACE IN SAME
 LOCATION

WAITING POLE SET(S)
 POLE STATUS (TRANSFERS)

- WAITING L.I.S.
- WAITING MUNI.
- WAITING CLEC
- WAITING CATV
- WAITING TEL

POLE ATTACHEES & CONTACTS:
 NJUNS PRIORITY CODE: 0
 POWER CO: CENTRAL MAINE POWER COMPANY
 CONTACT: GERRY NORTON 207,779-9118
 CATV: COMCAST
 CONTACT: GEORGE KIRKWOOD 603,679-5695, EXT. 1007
 TOWN OF KITTERY DEPT. OF PUBLIC WORKS
 CONTACT: MARY ANN CONROY 207,439-0333
 WRIGHT-PIERCE ENGINEERING:
 CONTACT: LYNDSEY BUTLER 603,570-7114
 CONTACT: JENNIFER CLASTER 207,319-1506

TRACKING UNIT = 151711

603,528-7354

FAIRPOINT

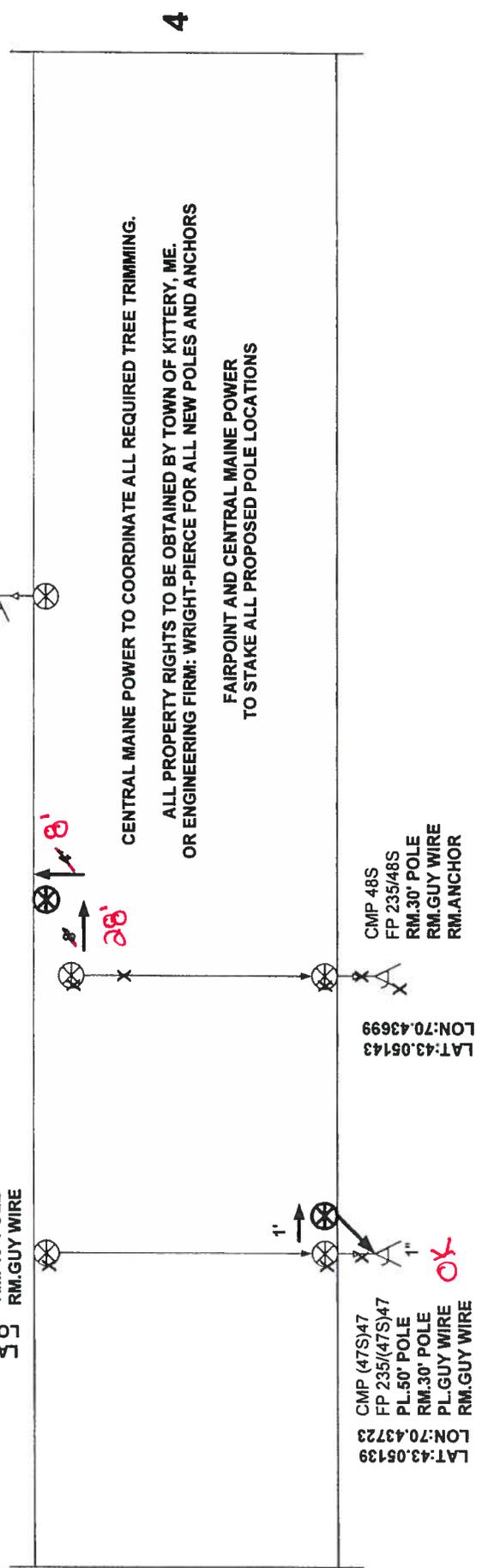
SAFETY NOTES: Traffic Control Required		MOD/REV NO.	DATE:	ORDER ESTIMATE #	263758
SIGNATURE: Ernest Kangas, Jr.		CABLE DIAG TYPE	CA DIAG #	PRINT	3 OF 7
DATE: 2/8/12		Aerial	-	PREPARED BY:	Ernest Kangas, Jr.
PRE CT	YES	NO	PHASE TO GROUND	C.O. / EXCHANGE NAME:	PORTSMOUTH
13.0	KV	4.160	KV	C.O. / EXCHANGE CODE:	9176
SYSTEM TYPE		MGN		MUNICIPALITY:	
Underground		Underground		KITTERY	
CABLE PRESSURE		UNDER PRESS	YES	NO	MANHOLE LOCATION MH
TRANSMISSION		26GA LIMIT	YES	NO	AMT. BRIDGE TAP
ELECTRIC COMPANY NAME:		CENTRAL MAINE POWER COMPANY			
EXCHANGE OF NOTICE / MEMO #		TEL. CO.	EL. CO.	CATV	

WHIPPLE ROAD

CMP 48
 FP 235/48
 PL.45' POLE
 RM.40' POLE
 RM.GUY WIRE
 LAT:43.05148
 LON:70.43700

CMP 47
 FP 235/47
 RM.40' POLE
 RM.GUY WIRE
 LAT:43.05143
 LON:70.43722

CMP 49
 FP 235/49
 LAT:43.05156
 LON:70.43684



CENTRAL MAINE POWER TO COORDINATE ALL REQUIRED TREE TRIMMING.

ALL PROPERTY RIGHTS TO BE OBTAINED BY TOWN OF KITTERY, ME.
 OR ENGINEERING FIRM: WRIGHT-PIERCE FOR ALL NEW POLES AND ANCHORS

FAIRPOINT AND CENTRAL MAINE POWER
 TO STAKE ALL PROPOSED POLE LOCATIONS

4

2

WAITING POLE SET(S)
 POLE STATUS (TRANSFERS)

- WAITING L.I.S.
- WAITING MUNI.
- WAITING CLEC
- WAITING CATV
- WAITING TEL

POLE ATTACHEES & CONTACTS:
 NJUNS PRIORITY CODE: 0
 POWER CO: CENTRAL MAINE POWER COMPANY
 CONTACT: GERRY NORTON 207,779-9118
 CATV: COMCAST
 CONTACT: GEORGE KIRKWOOD 603,679-3695, EXT. 1007
 TOWN OF KITTERY DEPT. OF PUBLIC WORKS
 CONTACT: MARY ANN CONROY 207,439-0333
 WRIGHT-PIERCE ENGINEERING:
 CONTACT: LYNDSEY BUTLER 603,570-7114
 CONTACT: JENNIFER CLASTER 207,319-1506

TRACKING UNIT = 151711

SAFETY NOTES:
Traffic Control Required

SIGNATURE: 2/8/12

PRE CT YES NO

PHASE TO GROUND

13.0 KV

4.160 KV

MGN

UNDER PRESS YES NO

26GA LIMIT YES NO

AMT. BRIDGE TAP

MANHOLE LOCATION MH

EXCHANGE OF NOTICE / MEMO #

TEL. CO.

EL. CO.

CATV

CENTRAL MAINE POWER COMPANY

603,528-7354

ORDER # 253758

ESTIMATE # 253758

DATE: -

MOD/REV. NO. -

PRINT 4 OF 7

PREPARED BY: Ernest Kangas, Jr.

C.O. / EXCHANGE NAME: PORTSMOUTH

CABLE DIAG. TYPE CA. DIAG. # 9176

Aerial

Buried

Conduit

Underground

Buffer YES NO

AMT. BRIDGE TAP

MANHOLE LOCATION MH

EXCHANGE OF NOTICE / MEMO #

TEL. CO.

EL. CO.

CATV

CENTRAL MAINE POWER COMPANY

FAIRPOINT

ORDER # 253758

ESTIMATE # 253758

DATE: -

MOD/REV. NO. -

PRINT 4 OF 7

PREPARED BY: Ernest Kangas, Jr.

C.O. / EXCHANGE NAME: PORTSMOUTH

CABLE DIAG. TYPE CA. DIAG. # 9176

Aerial

Buried

Conduit

Underground

Buffer YES NO

AMT. BRIDGE TAP

MANHOLE LOCATION MH

EXCHANGE OF NOTICE / MEMO #

TEL. CO.

EL. CO.

CATV

CENTRAL MAINE POWER COMPANY

NOT SHOWN ON OUR PLANS

CMP 50S
 FP 235/50S
 PL.35' POLE
 RM.25' POLE
 PL.GUY WIRE
 RM.GUY WIRE

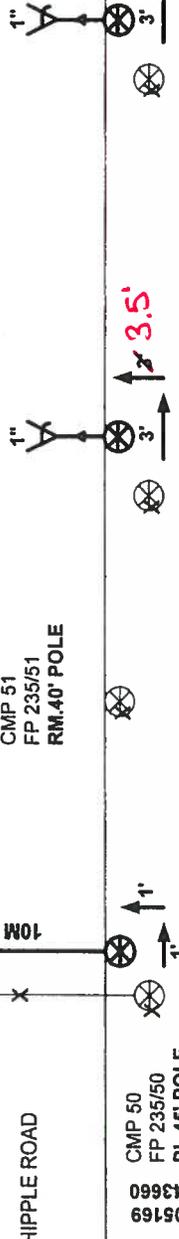
LONG: 70.43660
 LAT: 43.05178

WHIPPLE ROAD

CMP 51
 FP 235/51
 RM.40' POLE

CMP 52
 FP 235/52
 PL.45' POLE
 RM.40' POLE
 PL.GUY WIRE
 PL. ANCHOR

CMP 53
 FP 235/53
 PL.45' POLE
 RM.40' POLE
 PL.GUY WIRE
 PL. ANCHOR



CENTRAL MAINE POWER TO COORDINATE ALL REQUIRED TREE TRIMMING.

ALL PROPERTY RIGHTS TO BE OBTAINED BY TOWN OF KITTERY, ME. OR ENGINEERING FIRM: WRIGHT-PIERCE FOR ALL NEW POLES AND ANCHORS

FAIRPOINT AND CENTRAL MAINE POWER TO STAKE ALL PROPOSED POLE LOCATIONS

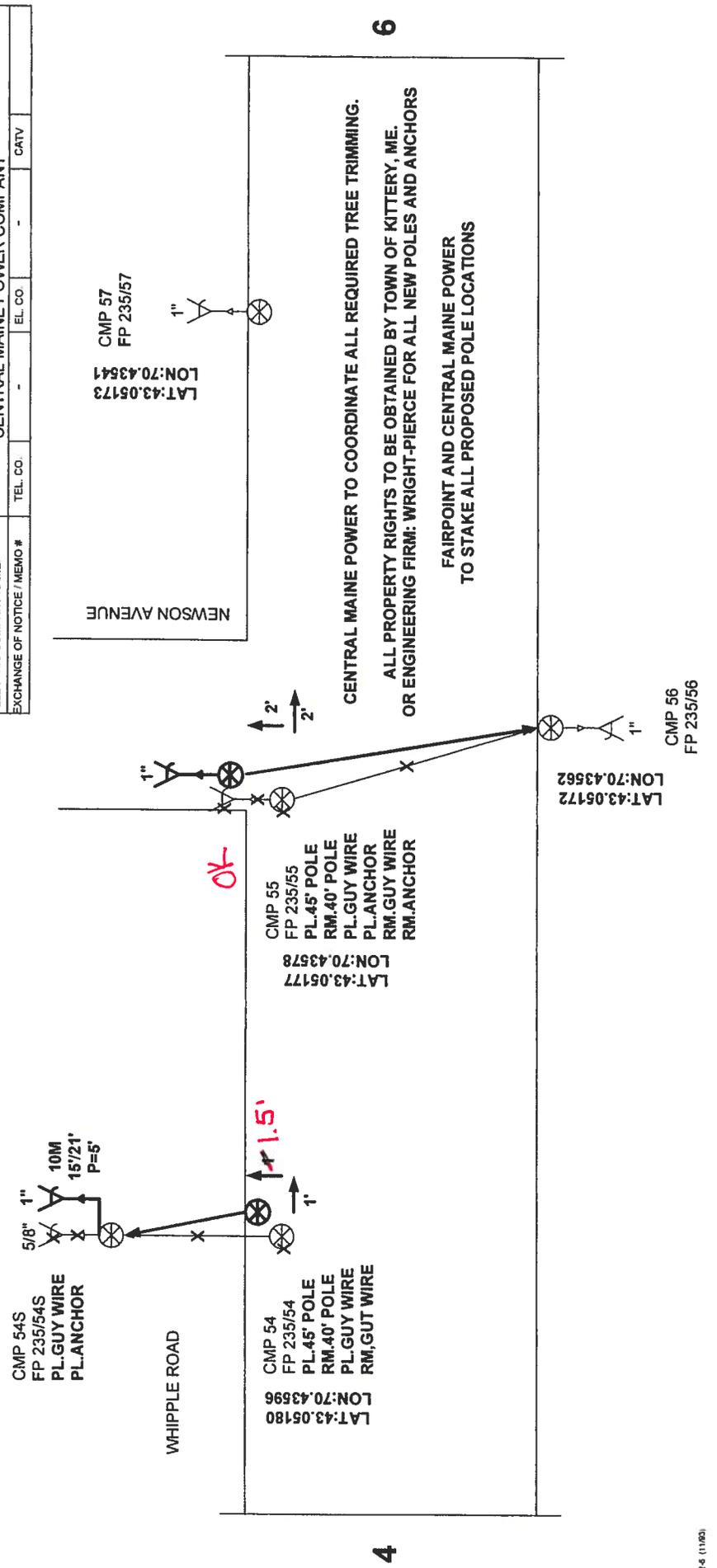
WAITING POLE SET(S)
 POLE STATUS (TRANSFERS)

- WAITING L.T.S.
- WAITING MUNI.
- WAITING CLEC
- WAITING CATV
- WAITING TEL

POLE ATTACHEES & CONTACTS:
 NJJNS PRIORITY CODE: 0
 POWER CO: CENTRAL MAINE POWER COMPANY
 CONTACT: GERRY NORTON 207,779-9118
 CATV: COMCAST
 CONTACT: GEORGE KIRKWOOD 603.679-5695, EXT.1007
 TOWN OF KITTEERY DEPT. OF PUBLIC WORKS
 CONTACT: MARY ANN CONROY 207.439-0333
 WRIGHT-PIERCE ENGINEERING:
 CONTACT: LYNDSEY BUTLER 603.570-7114
 CONTACT: JENNIFER CLASTER 207.319-1506

TRACKING UNIT = 151711 603,528-7354 **FAIRPOINT**

SAFETY NOTES: Traffic Control Required		MOD/REV NO	DATE	ORDER / ESTIMATE #	253758
SIGNATURE: _____ DATE: 2/8/12		PREPARED BY:		PRINT	5 OF 7
PRE CT YES NO		PHASE TO GROUND		CABLE DIAG TYPE	CA DIAG #
13.0 KV		4.160 KV		Aerial	
SYSTEM TYPE		MGSN		Underground	9176
CABLE PRESSURE		UNDER PRESS YES NO		Buffer YES NO	
TRANSMISSION		26GA LIMIT YES NO		AMT. BRIDGE TAP	
ELECTRIC COMPANY NAME:		TEL. CO.		MANHOLE LOCATION MH	
EXCHANGE OF NOTICE / MEMO #				CENTRAL MAINE POWER COMPANY	KF
		EL. CO.		CATV	



WAITING POLE SET(S)
 POLE STATUS(TRANSFERS)

- WAITING L.I.S.
- WAITING MUNI.
- WAITING CLEC
- WAITING CATV
- WAITING TEL

POLE ATTACHEES & CONTACTS:
 NJUNS.PRIORITY CODE:0
 POWER CO:CENTRAL MAINE POWER COMPANY
 CONTACT: GERRY NORTON 207,779-9118
 CATV:COMCAST
 CONTACT: GEORGE KIRKWOOD 603.679-5695,EXT.1007
 TOWN OF KITTEERY DEPT. OF PUBLIC WORKS
 CONTACT: MARY ANN CONROY 207.439-0333
 WRIGHT-PIERCE ENGINEERING:
 CONTACT: LYNDSAY BUTLER 603.570-7114
 CONTACT: JENNIFER CLASTER 207,319-1506

TRACKING UNIT =151711

603,528-7354

FAIRPOINT

SAFETY NOTES: Traffic Control Required		ORDER / ESTIMATE # 253758
SIGNATURE: Ernest Kangas, Jr.		PRINT 6 OF 7
DATE: 2/8/12		PREPARED BY:
CABLE DIAG. TYPE: Aerial		C.O. / EXCHANGE NAME: PORTSMOUTH
PHASE TO PHASE: 13.0 KV		CA DIAG. # 9176
PHASE TO GROUND: MGN		MUNICIPALITY: KITTEERY
SYSTEM TYPE: Underground		MANHOLE LOCATION MH: -
CABLE PRESSURE: UNDER PRESS YES NO		AMT BRIDGE TAP: KF
TRANSMISSION: 28GA LIMIT YES NO		EL. CO. -
ELECTRIC COMPANY NAME: CENTRAL MAINE POWER COMPANY		CATV -
EXCHANGE OF NOTICE / MEMO #		TEL. CO. -

WHIPPLE ROAD

CMP 58
 FP 235/58
 LON:70.43519
 LAT:43.05166

CMP 59
 FP 235/59
 LON:70.43509
 LAT:43.05159

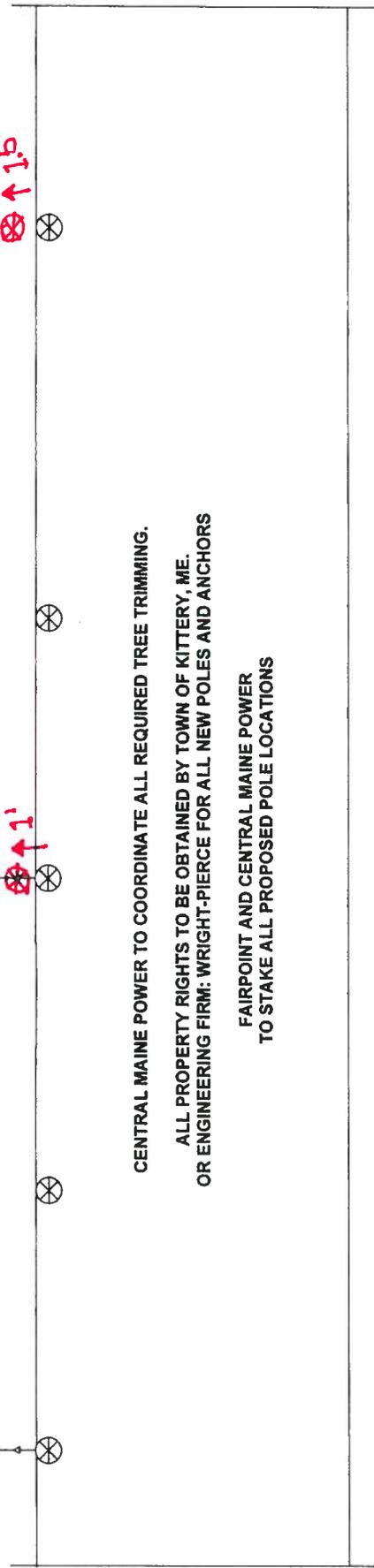
CMP 60
 FP 235/60
 LON:70.43488
 LAT:43.05140

CMP 61
 FP 235/61
 LON:70.43463
 LAT:43.05141

CMP 62
 FP 235/62
 LON:70.43443
 LAT:43.05129



1.5' ↑



CENTRAL MAINE POWER TO COORDINATE ALL REQUIRED TREE TRIMMING.
 ALL PROPERTY RIGHTS TO BE OBTAINED BY TOWN OF KITTEERY, ME.
 OR ENGINEERING FIRM: WRIGHT-PIERCE FOR ALL NEW POLES AND ANCHORS
 FAIRPOINT AND CENTRAL MAINE POWER
 TO STAKE ALL PROPOSED POLE LOCATIONS



WRIGHT-PIERCE 
Engineering a Better Environment

www.wright-pierce.com

99 Main Street
Topsham, ME 04086
Phone: 207.725.8721
Fax: 207.729.8414